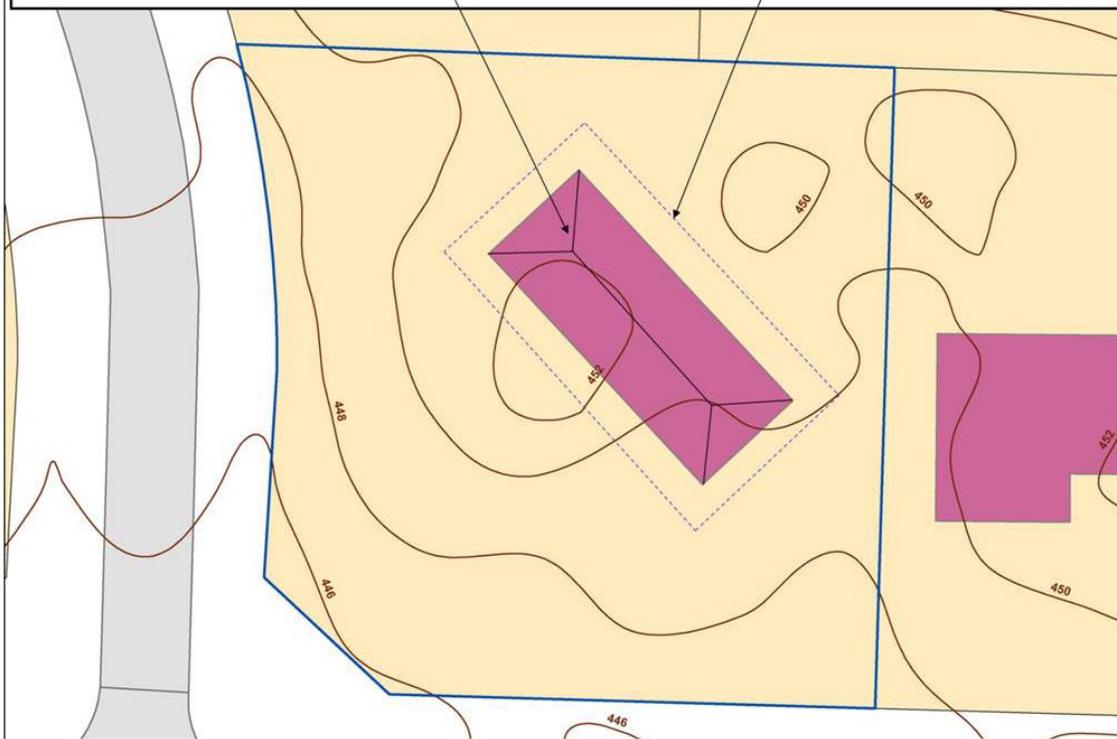


How to do a SITE ASSESSMENT



Step 1: Outline your roof peaks and draw a 10' perimeter around house

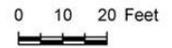


Legend

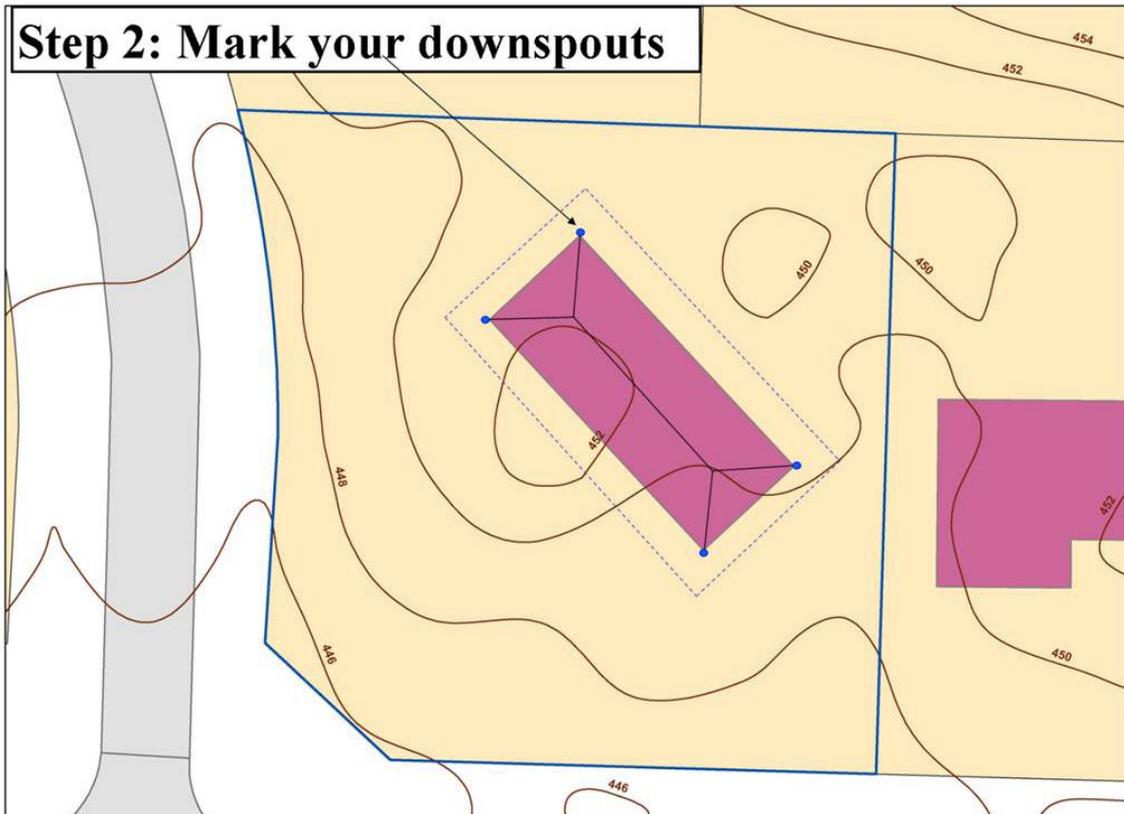
- Outlets County
- Outlets State
- Inlets State
- Inlets County
- 2 FT Contour



1 inch = 20 feet



Step 2: Mark your downspouts

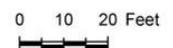


Legend

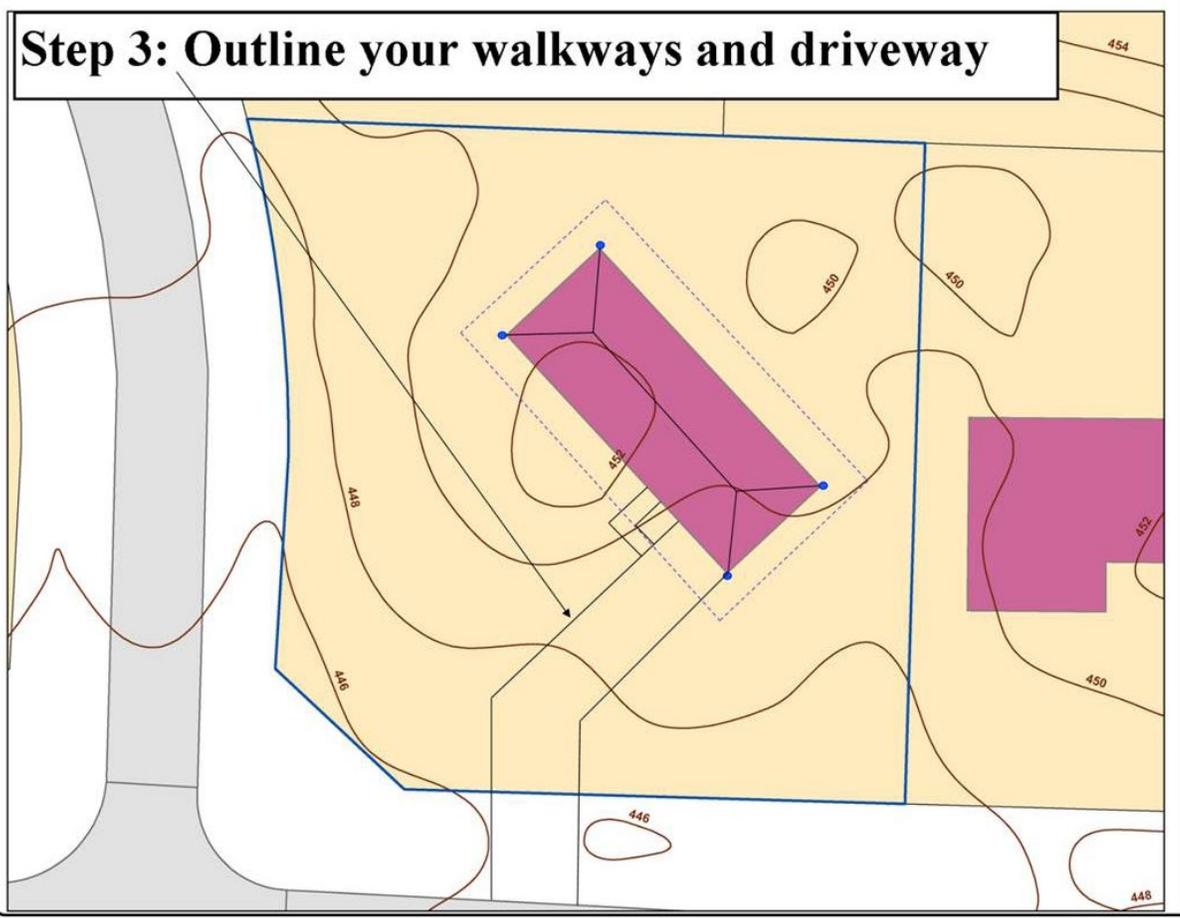
- Outlets County
- Outlets State
- Inlets State
- Inlets County
- 2 FT Contour



1 inch = 20 feet



Step 3: Outline your walkways and driveway



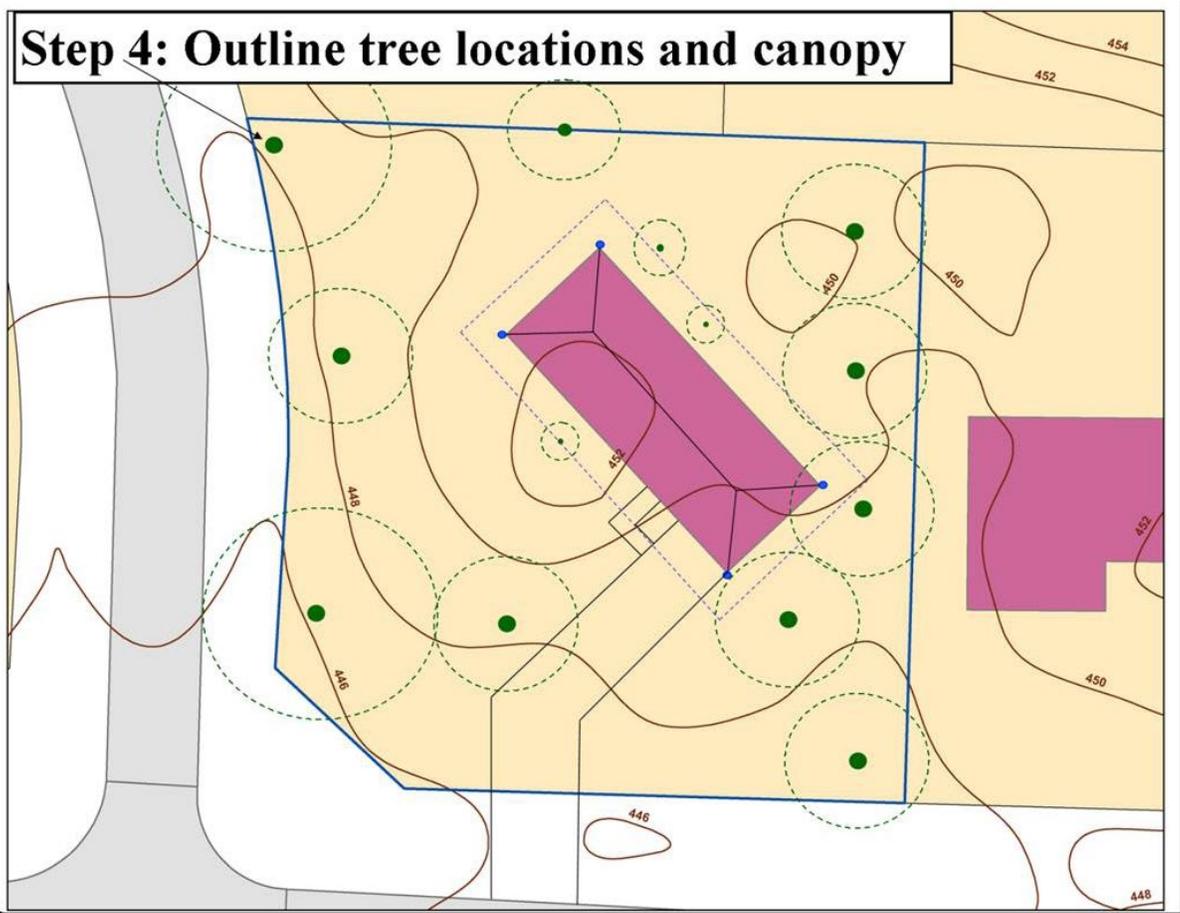
- Legend**
- Outlets County
 - Outlets State
 - Inlets State
 - Inlets County
 - 2 FT Contour



1 inch = 20 feet



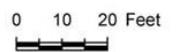
Step 4: Outline tree locations and canopy



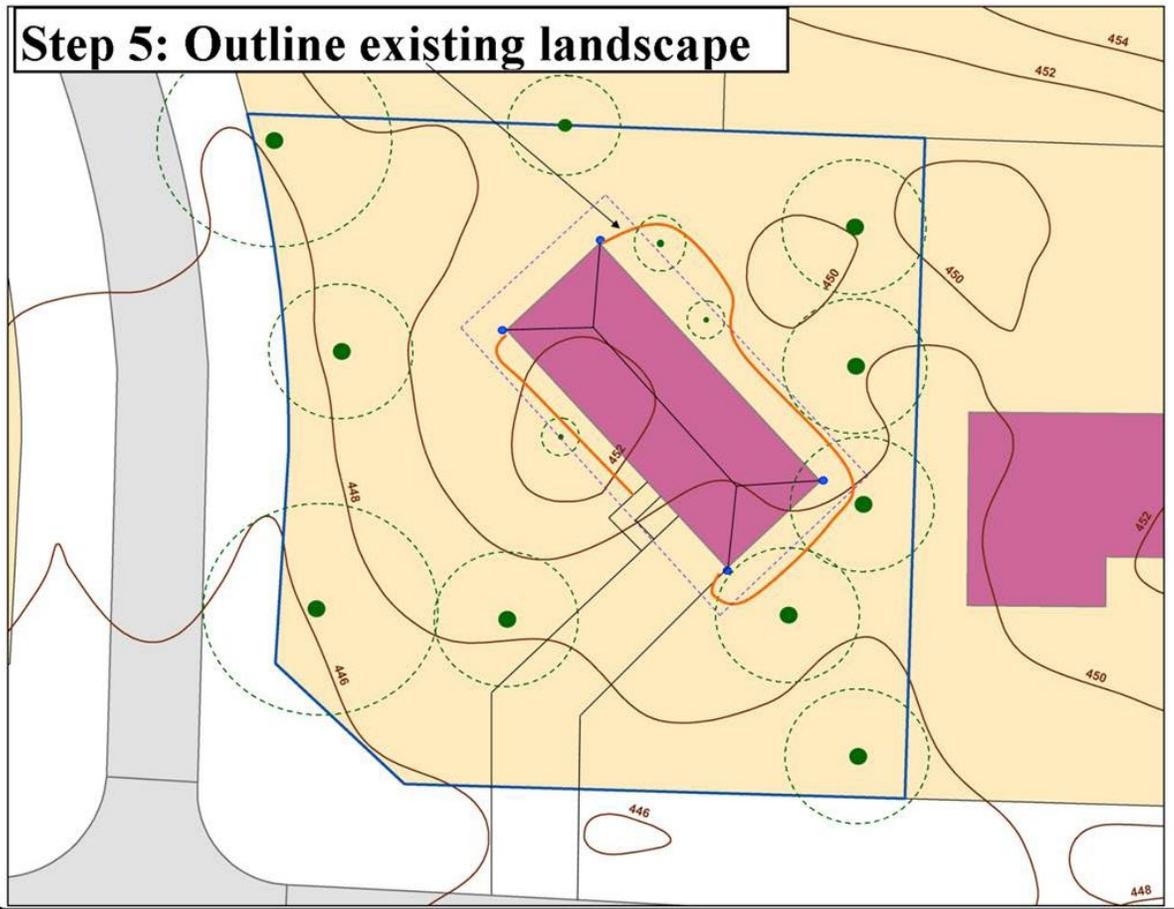
- Legend**
- Outlets County
 - Outlets State
 - Inlets State
 - Inlets County
 - 2 FT Contour



1 inch = 20 feet



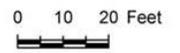
Step 5: Outline existing landscape



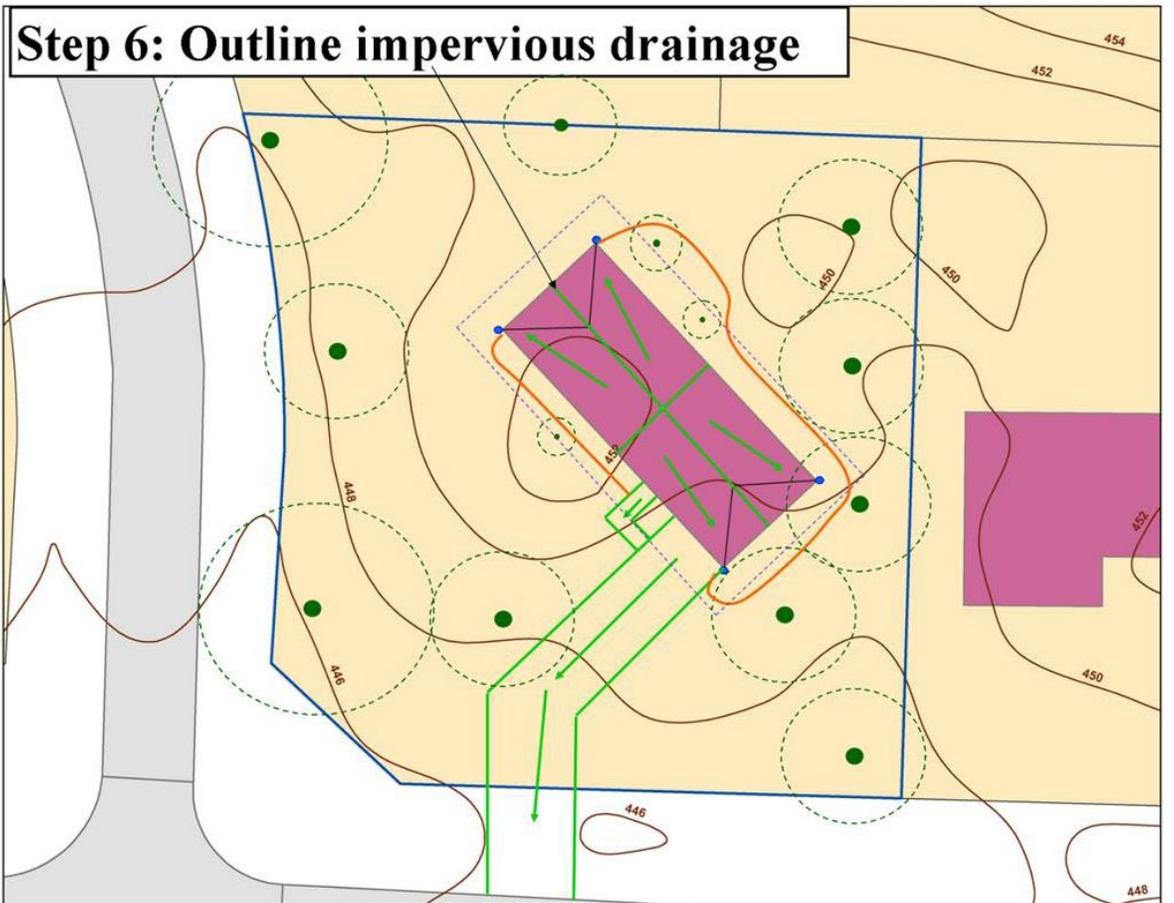
- Legend**
- Outlets County
 - Outlets State
 - Inlets State
 - Inlets County
 - 2 FT Contour



1 inch = 20 feet



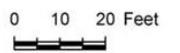
Step 6: Outline impervious drainage



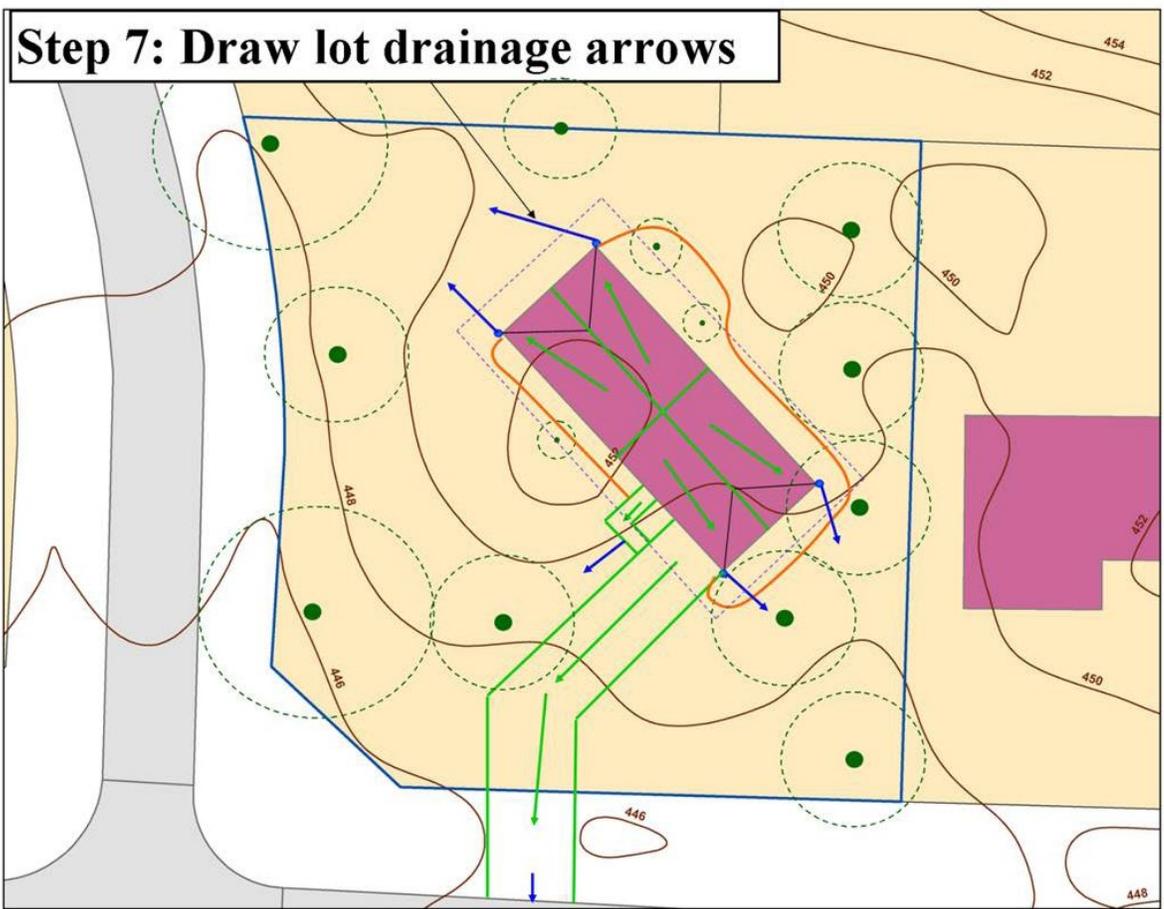
- Legend**
- Outlets County
 - Outlets State
 - Inlets State
 - Inlets County
 - 2 FT Contour



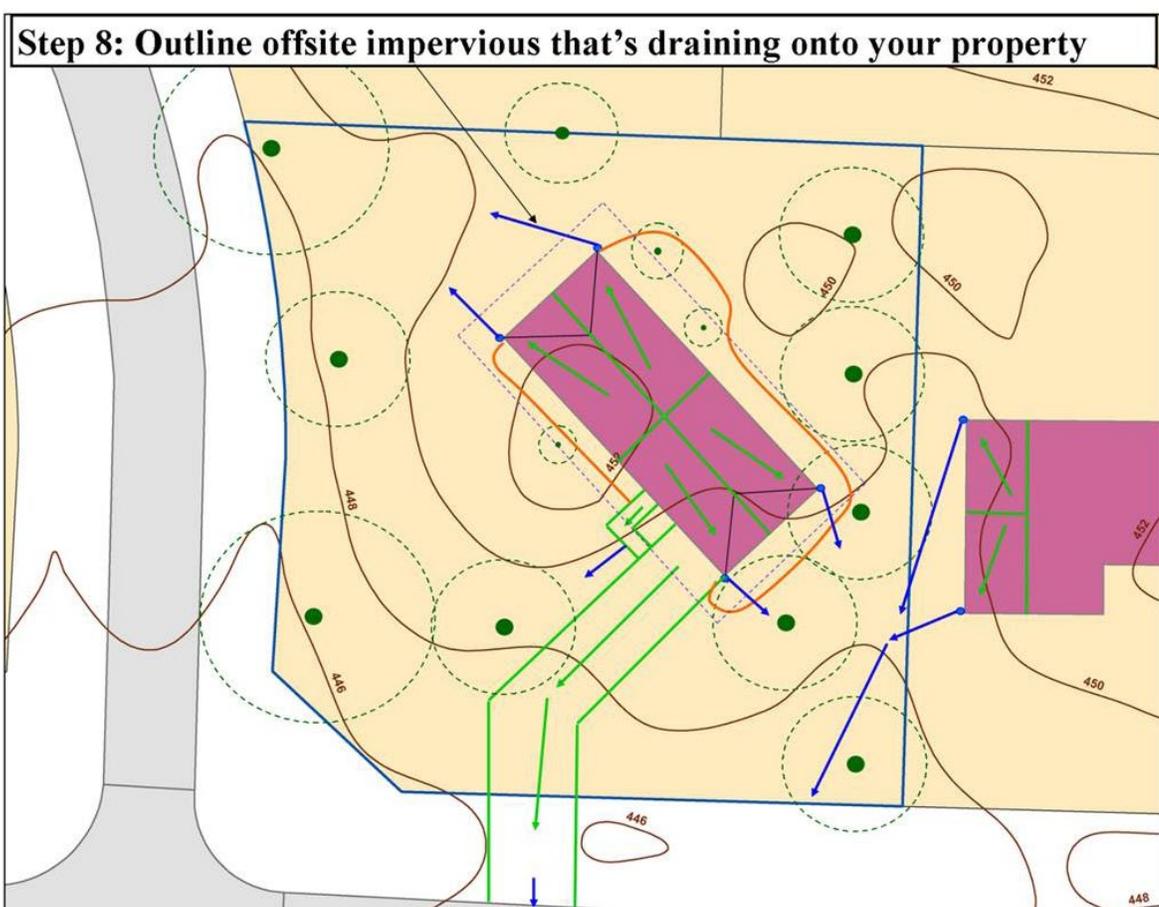
1 inch = 20 feet



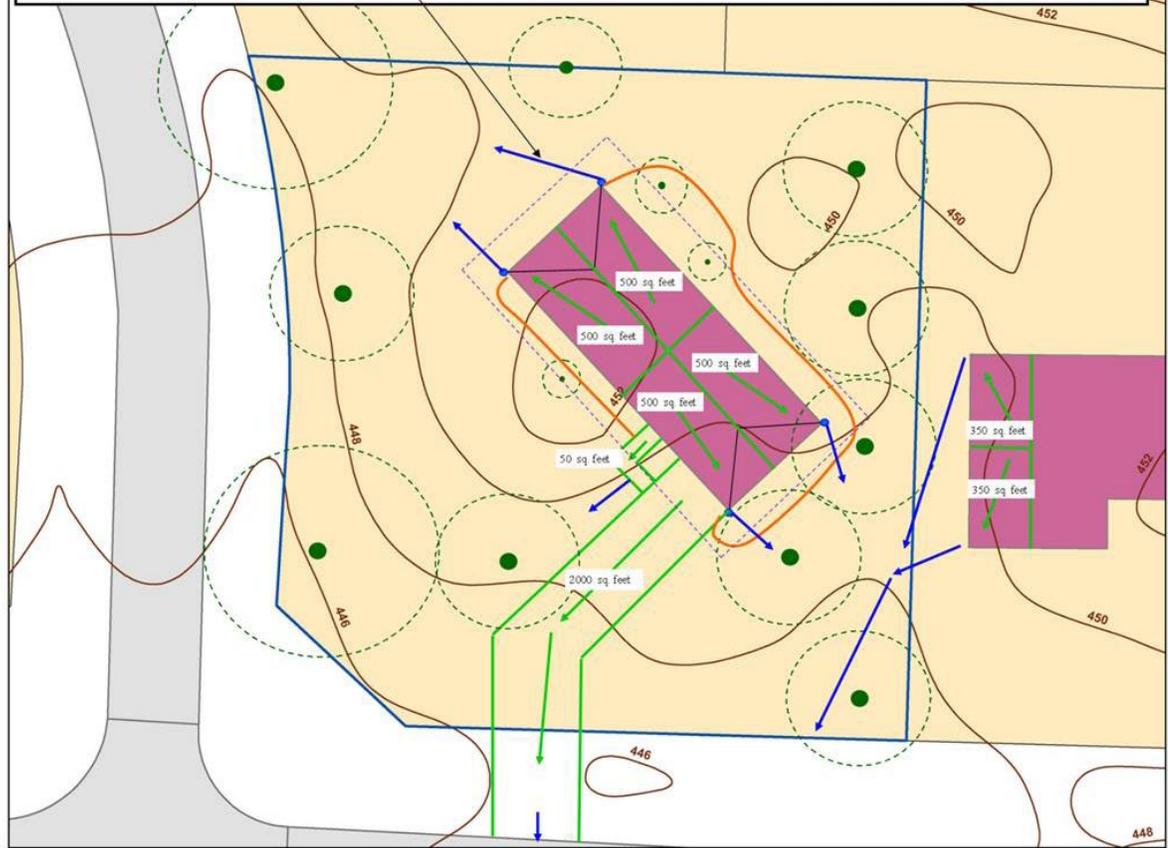
Step 7: Draw lot drainage arrows



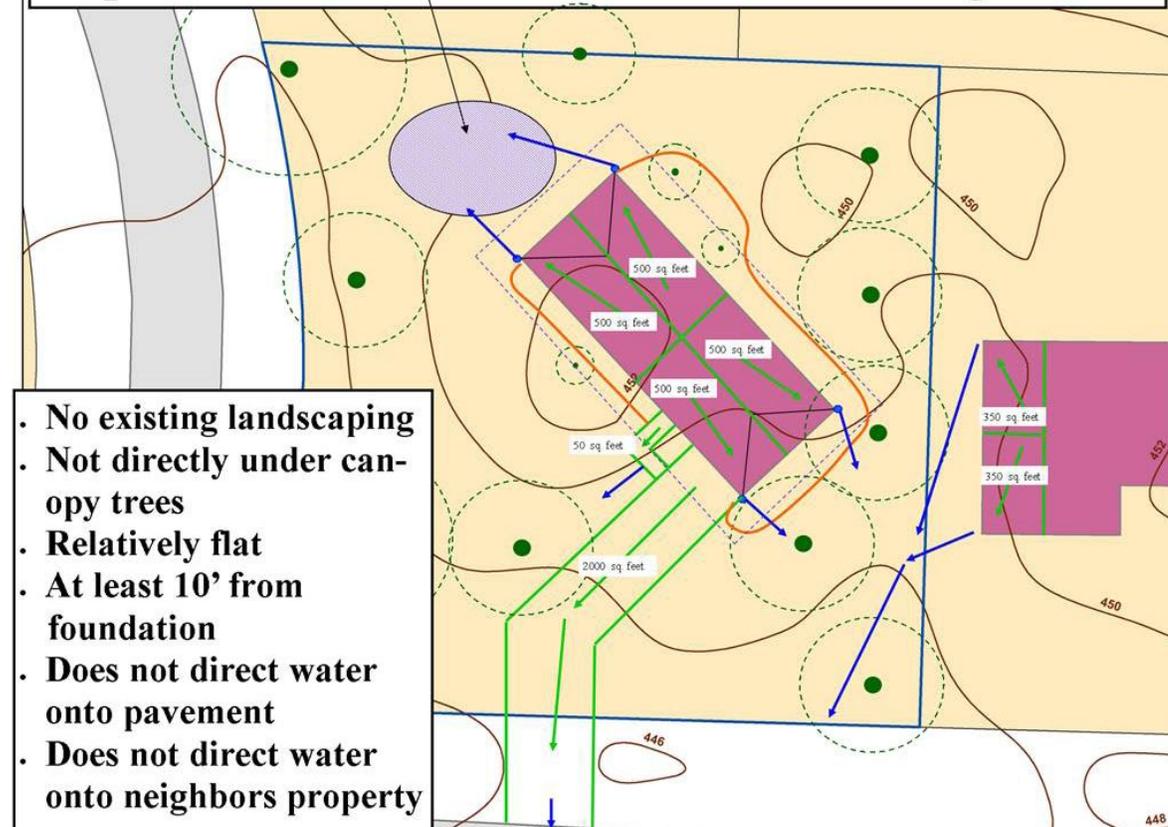
Step 8: Outline offsite impervious that's draining onto your property



Step 9: Using the scale and a ruler, measure impervious drainage areas.



Step 10: Determine best location for a rain garden



- No existing landscaping
- Not directly under canopy trees
- Relatively flat
- At least 10' from foundation
- Does not direct water onto pavement
- Does not direct water onto neighbors property

Step 11: Size rain garden using table based on impervious area flowing to rain garden site

Rain garden sizing tables

Table 1. Sizing table for 1 ft planting media.

Media footprint (square feet)	Drainage area (square feet)					
	100	200	300	400	500	600
5	1.1	0.6	0.4	0.3	0.2	0.2
15	2.2	1.1	0.7	0.6	0.4	0.4
30	3.8	1.9	1.3	1.0	0.8	0.6
50	6.0	3.0	2.0	1.5	1.2	1.0
60	7.1	3.6	2.4	1.8	1.4	1.2
75	8.8	4.4	2.9	2.2	1.8	1.5
100	11	5.7	3.8	2.9	2.3	1.9
125	14	7.1	4.7	3.6	2.8	2.4

Table 2. Sizing table for 2 ft planting media.

Media footprint (square feet)	Drainage area (square feet)					
	100	200	300	400	500	600
5	1.3	0.7	0.4	0.3	0.3	0.2
15	2.8	1.4	0.9	0.7	0.6	0.5
30	5.0	2.5	1.7	1.2	1.0	0.8
50	7.9	4.0	2.6	2.0	1.6	1.3
60	9.4	4.7	3.1	2.3	1.9	1.6
75	12	5.8	3.9	2.9	2.3	1.9
100	15	7.6	5.1	3.8	3.1	2.5
125	19	9.5	6.3	4.7	3.8	3.2

Table 3. Sizing table for 3 ft planting media.

Media footprint (square feet)	Drainage area (square feet)					
	100	200	300	400	500	600
5	1.5	0.7	0.5	0.4	0.3	0.2
15	3.3	1.7	1.1	0.8	0.7	0.6
30	6.1	3.1	2.0	1.5	1.2	1.0
50	9.8	4.9	3.3	2.5	2.0	1.6
60	12	5.8	3.9	2.9	2.3	1.9
75	14	7.2	4.8	3.6	2.9	2.4
100	19	9.5	6.4	4.8	3.8	3.2
125	24	12	7.9	5.9	4.7	3.9

An impervious drainage area of 500 sq. feet will require a rain garden media footprint of 60 square feet to capture 1.4" of rain. Since the impervious area is 1000 square feet we can double 60 sq. feet to 120 sq. feet. If a smaller garden is desired then the area of the garden can be reduced and the depth of the garden increased. Use tables 2 and 3 for these calculations.

